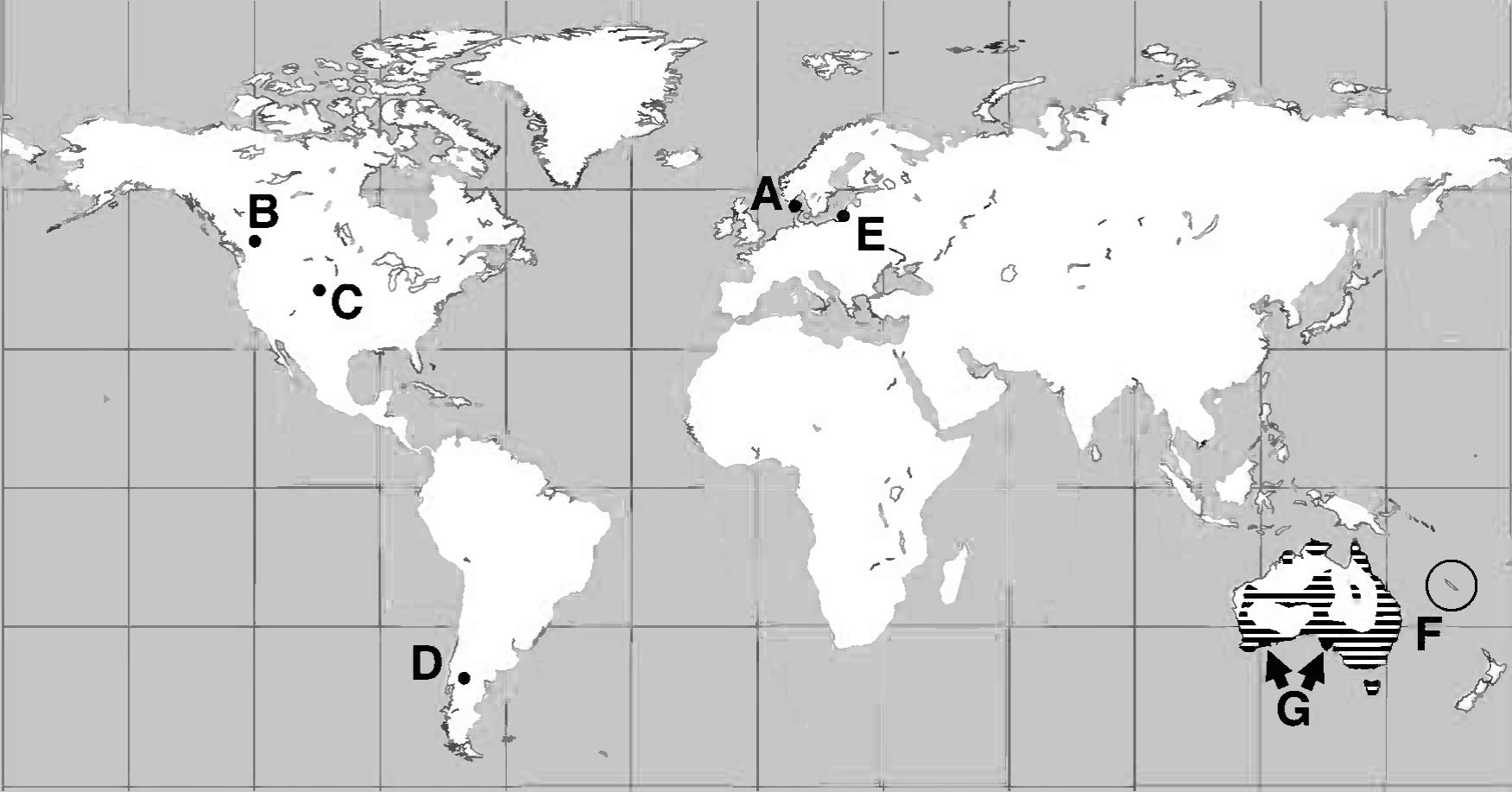
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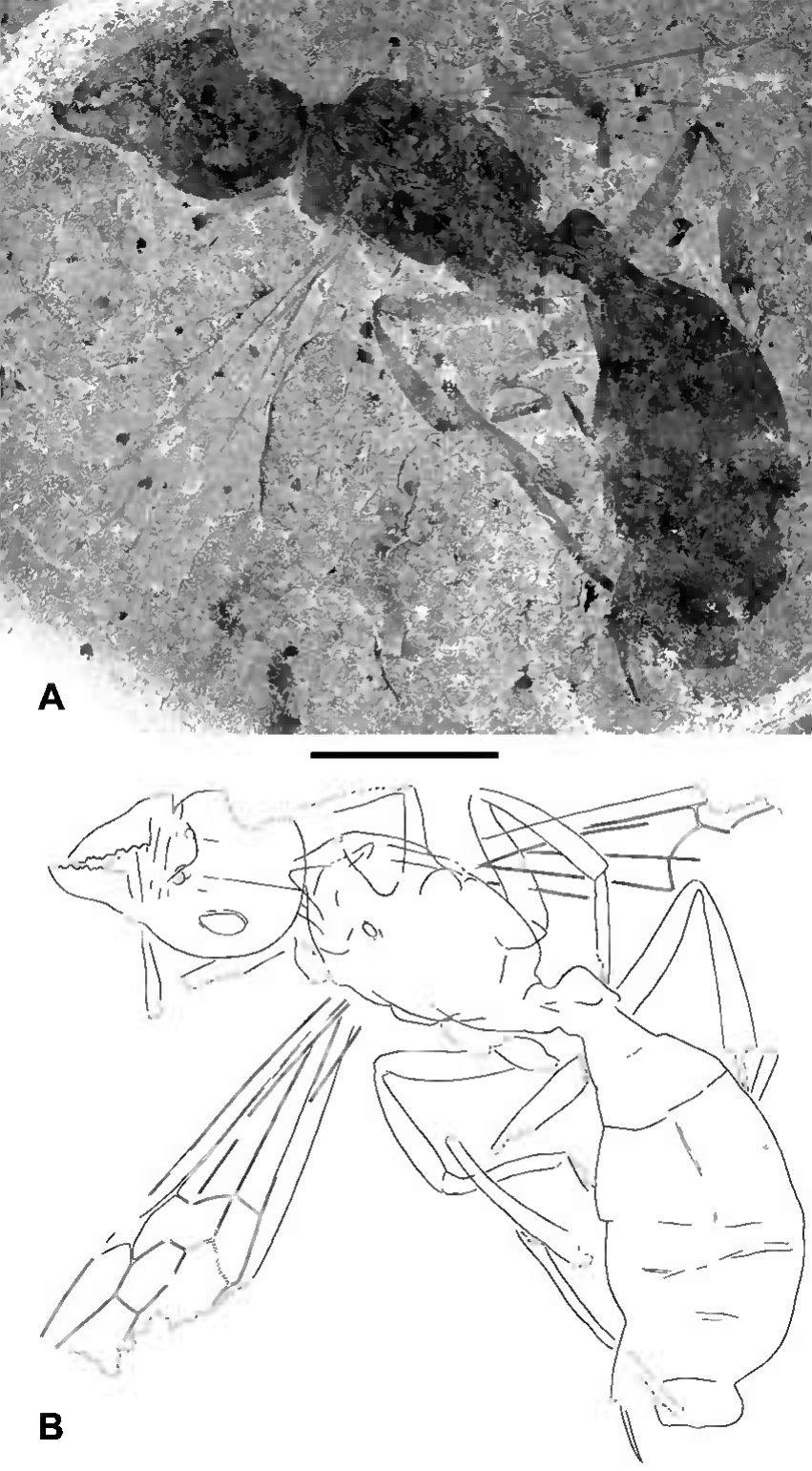
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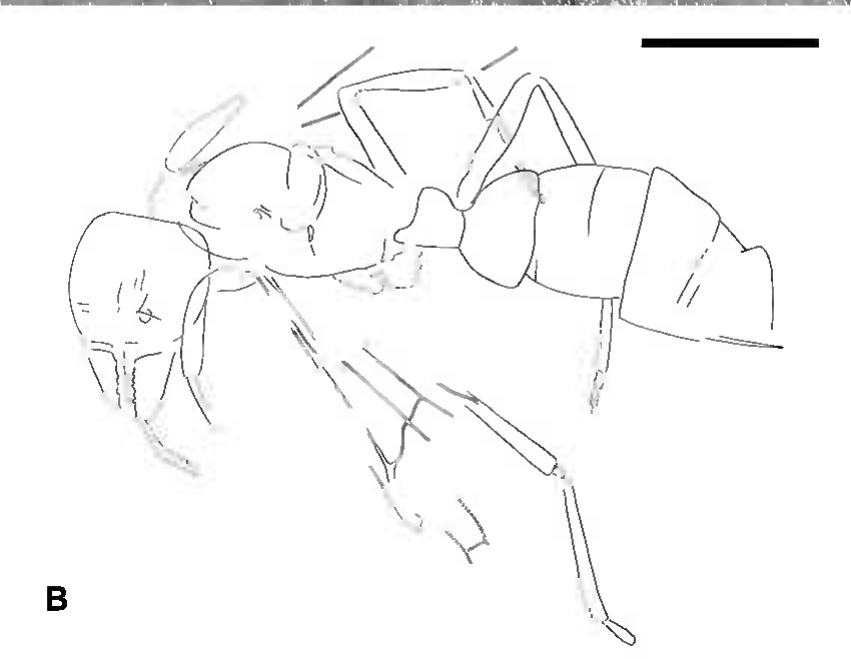
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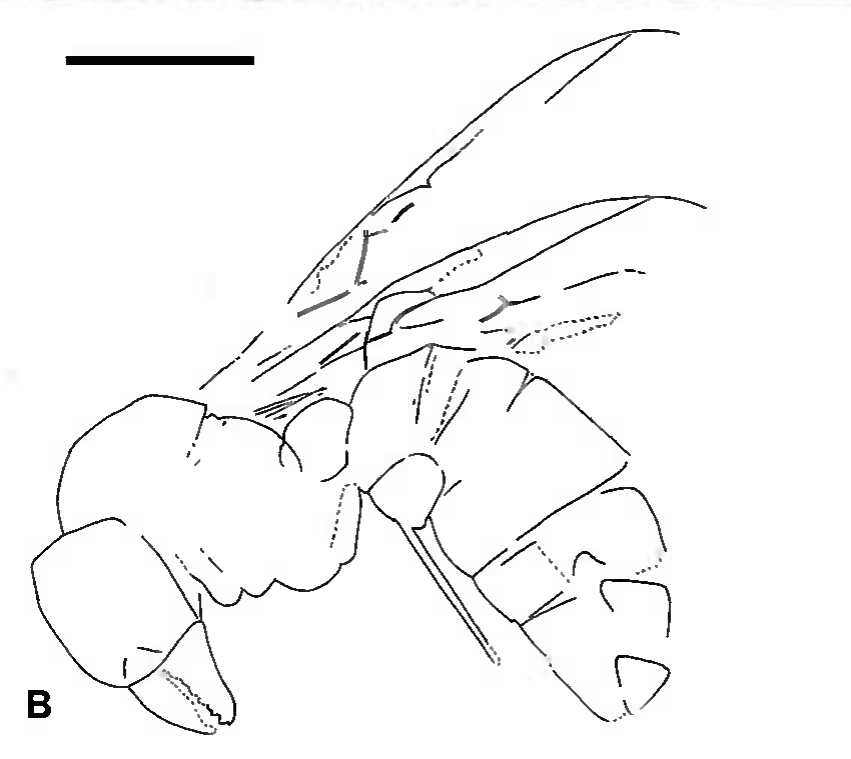
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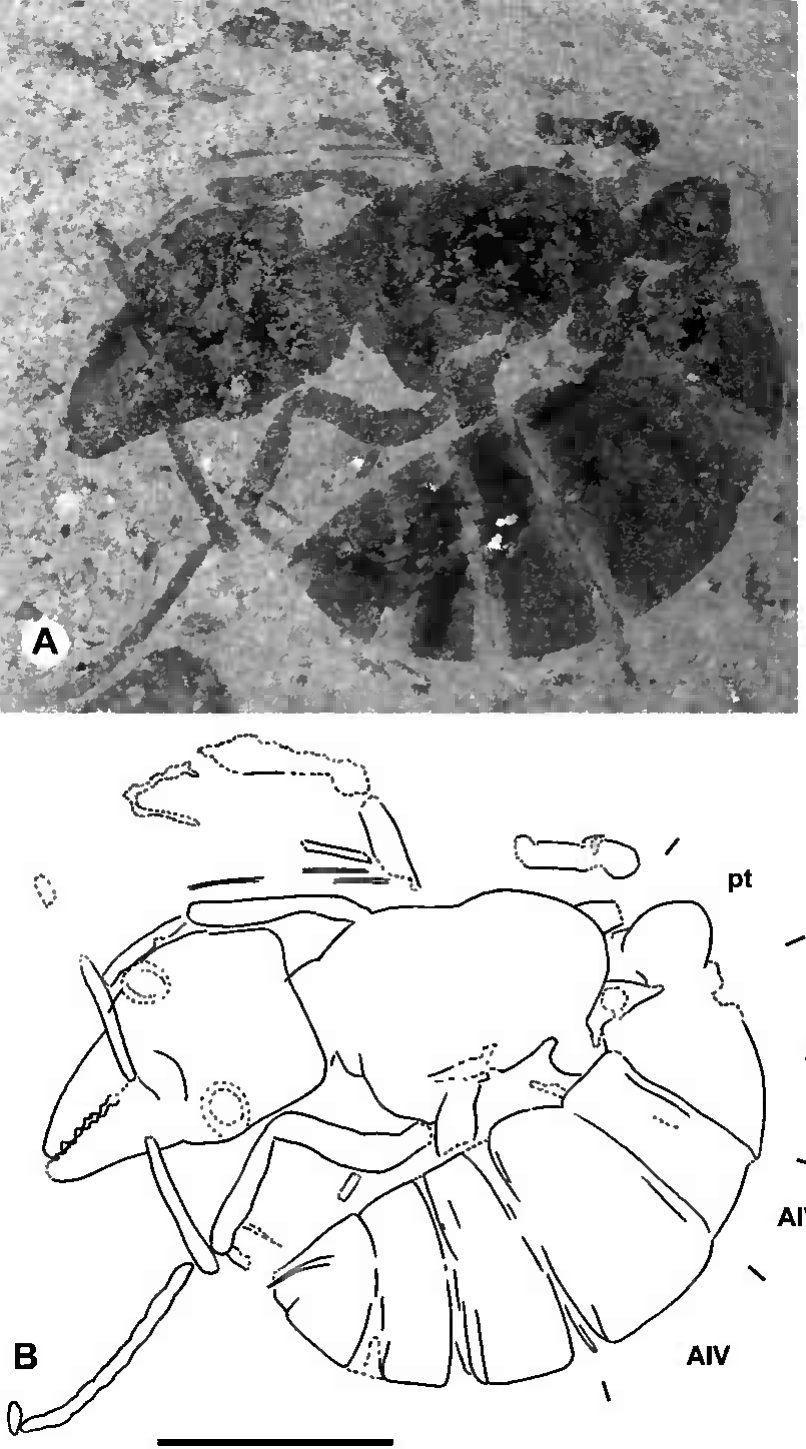
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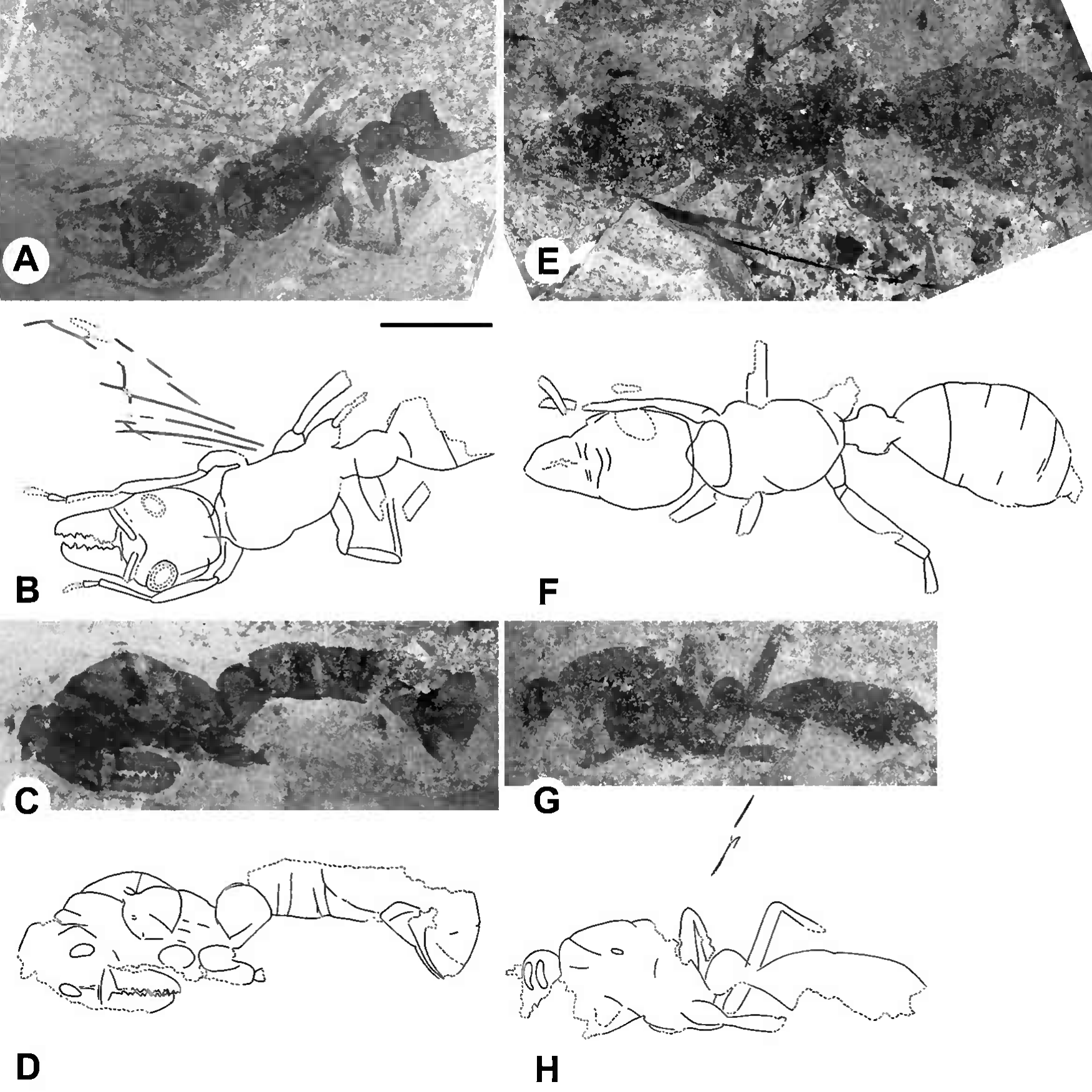
AIVp
AIV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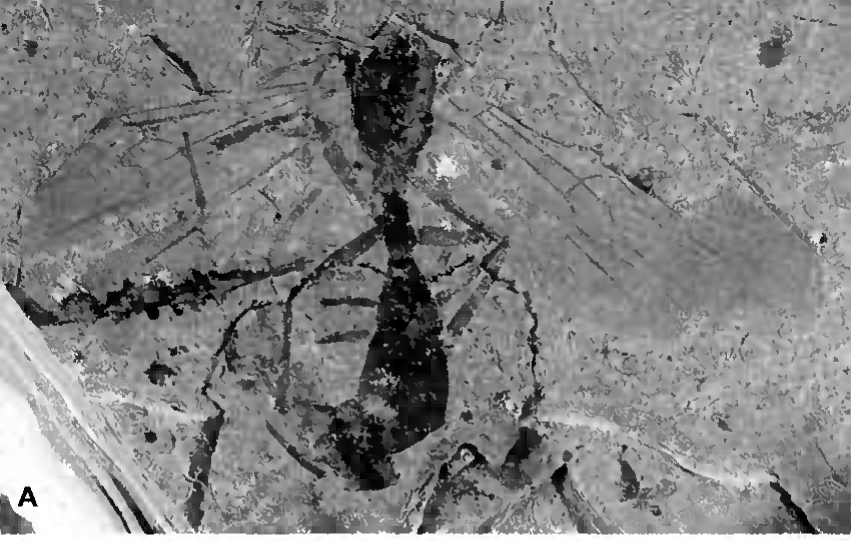
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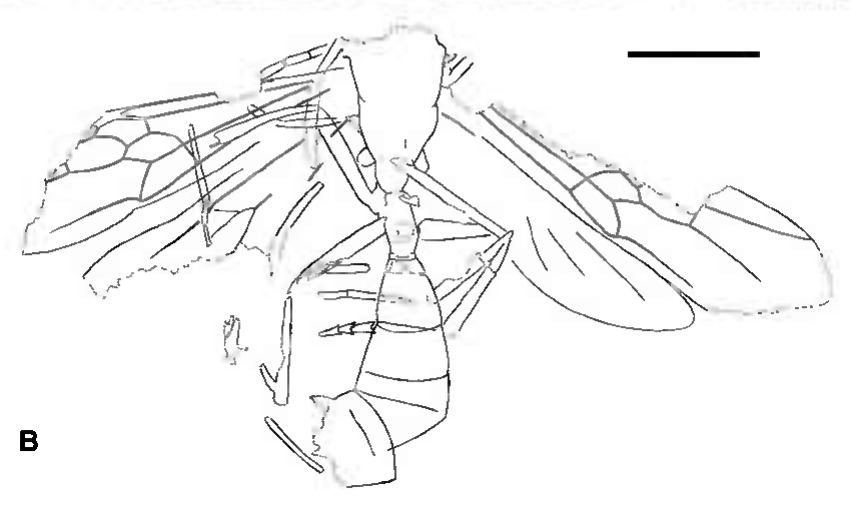
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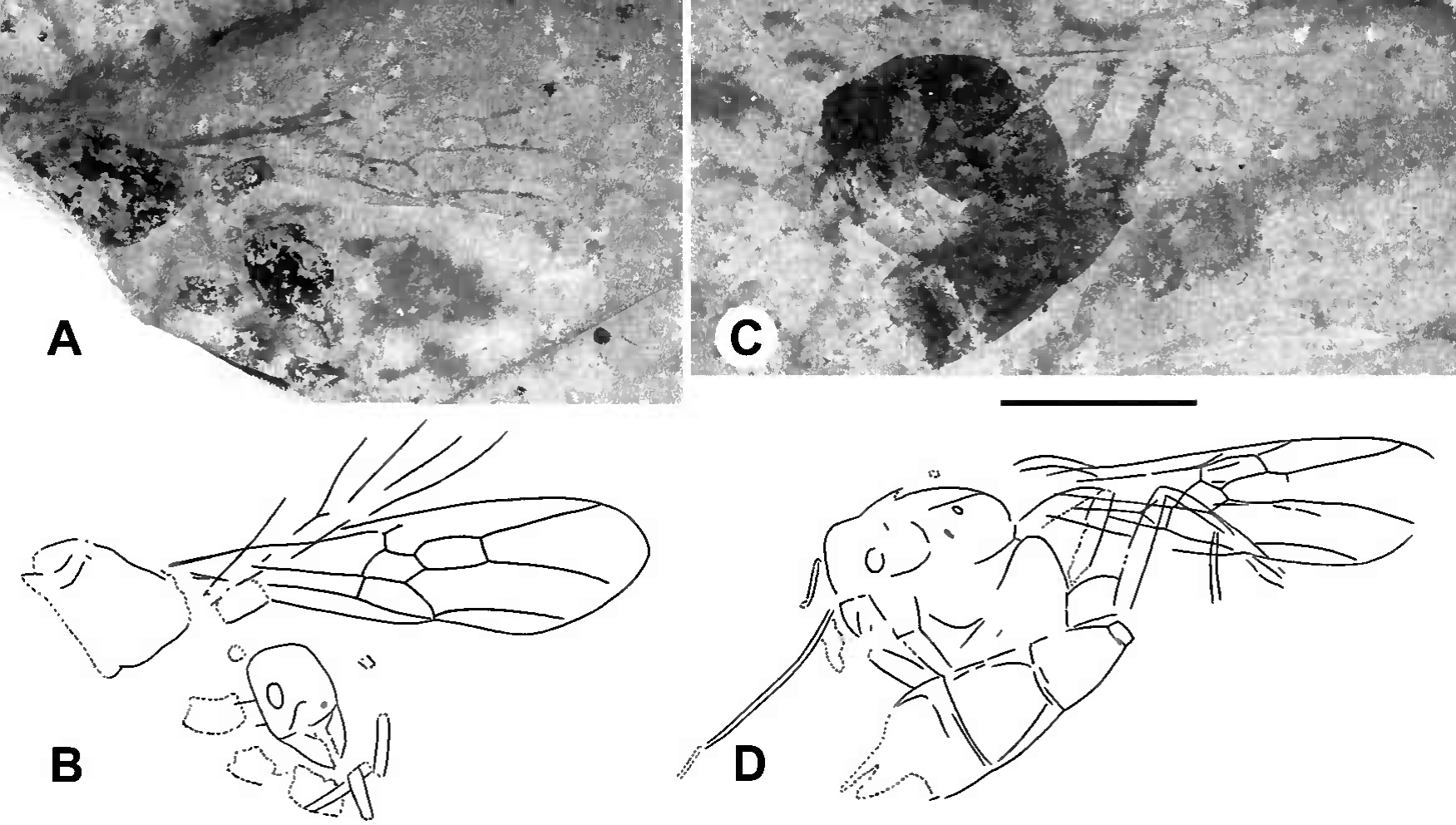
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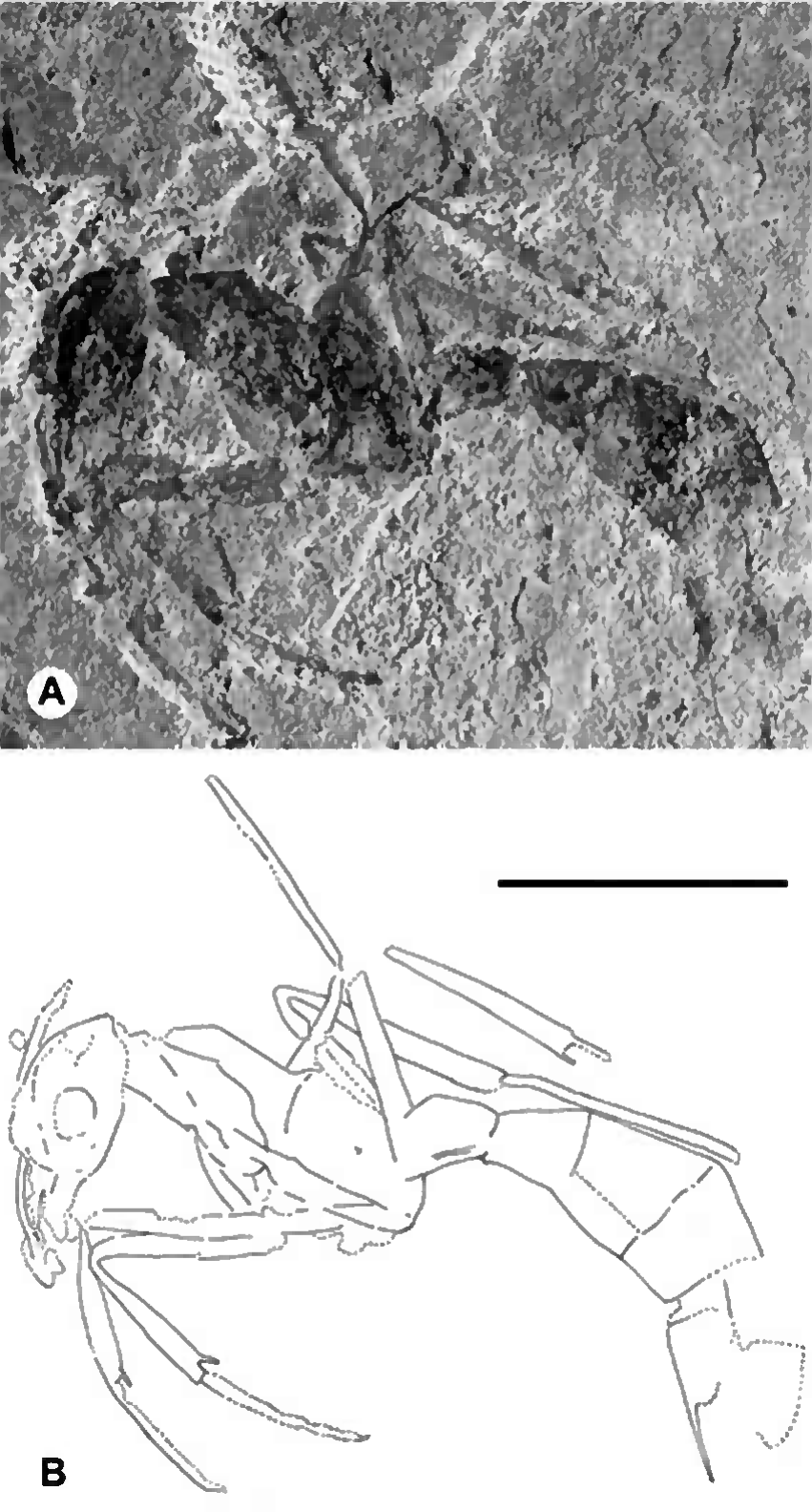
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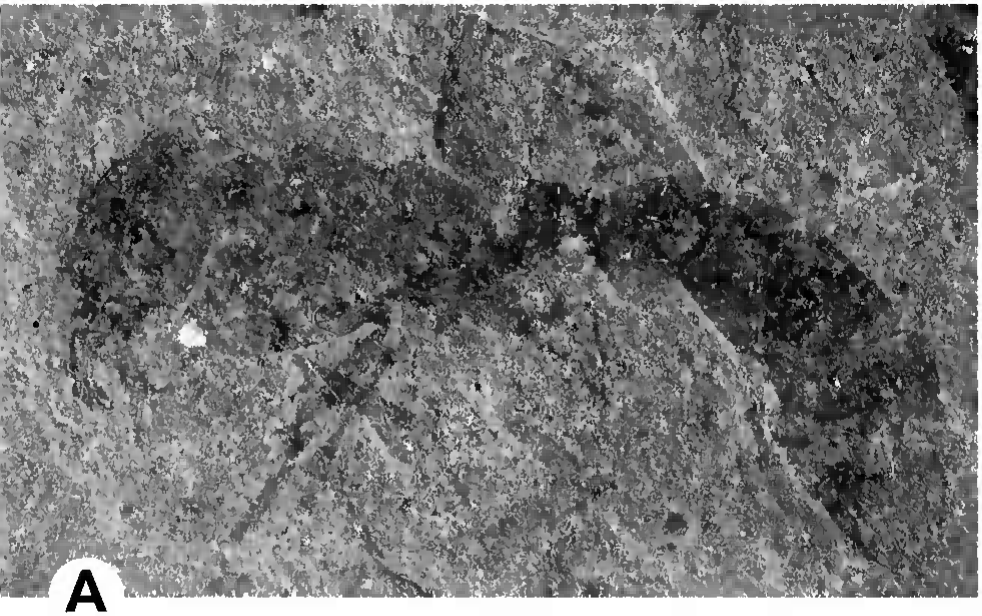

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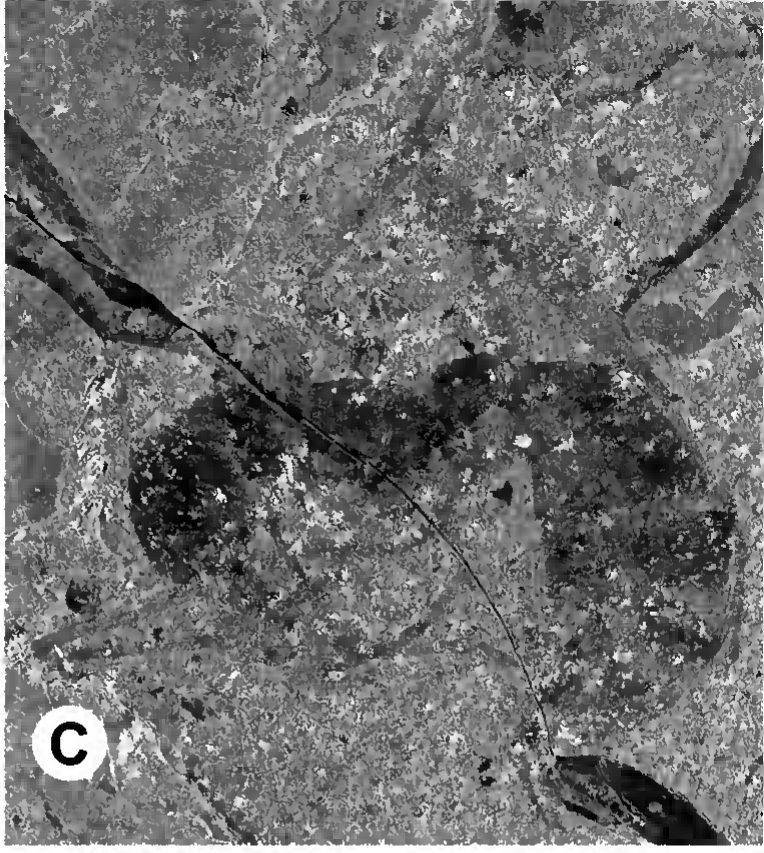

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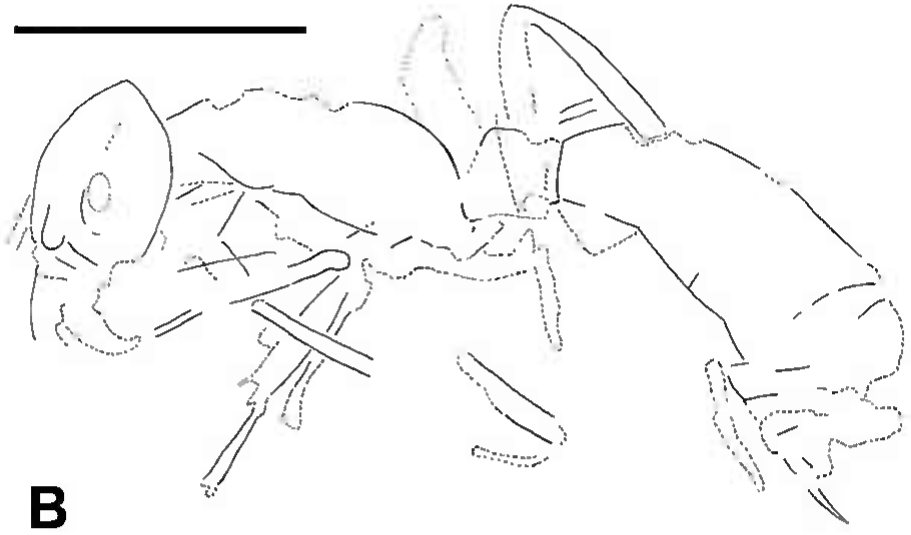

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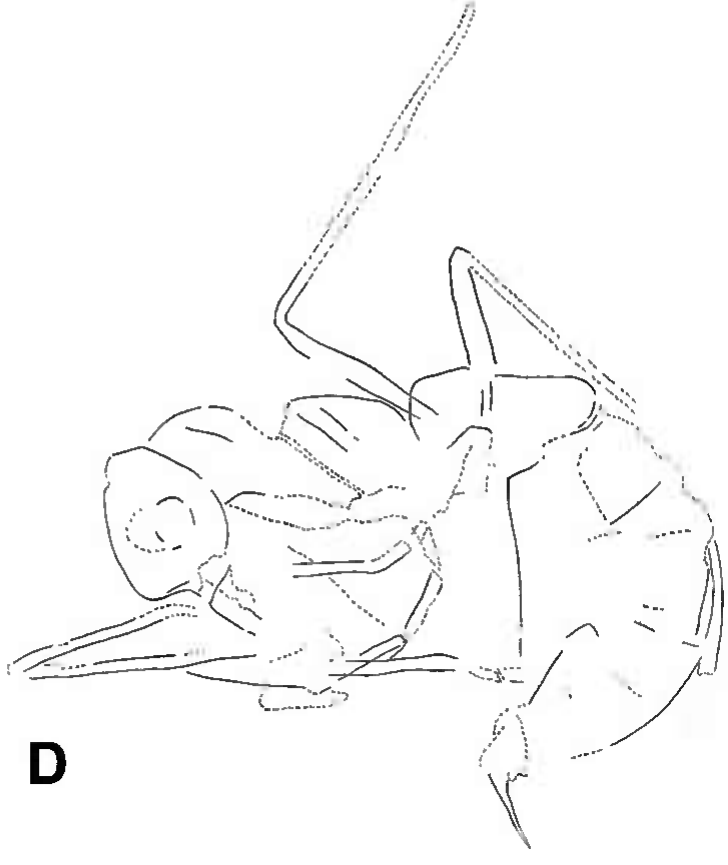

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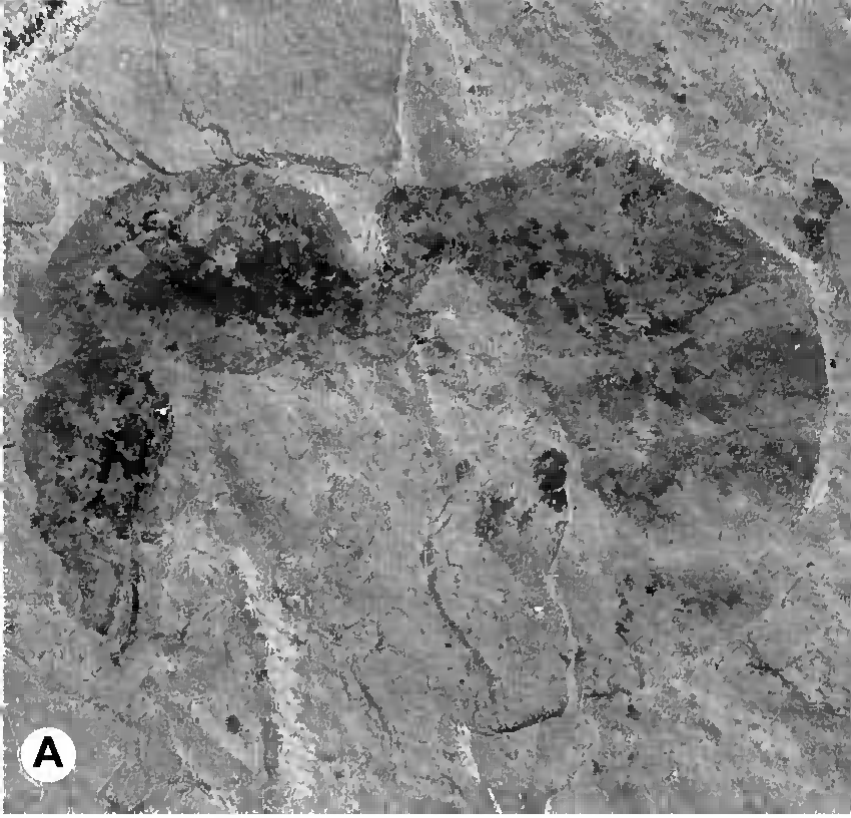
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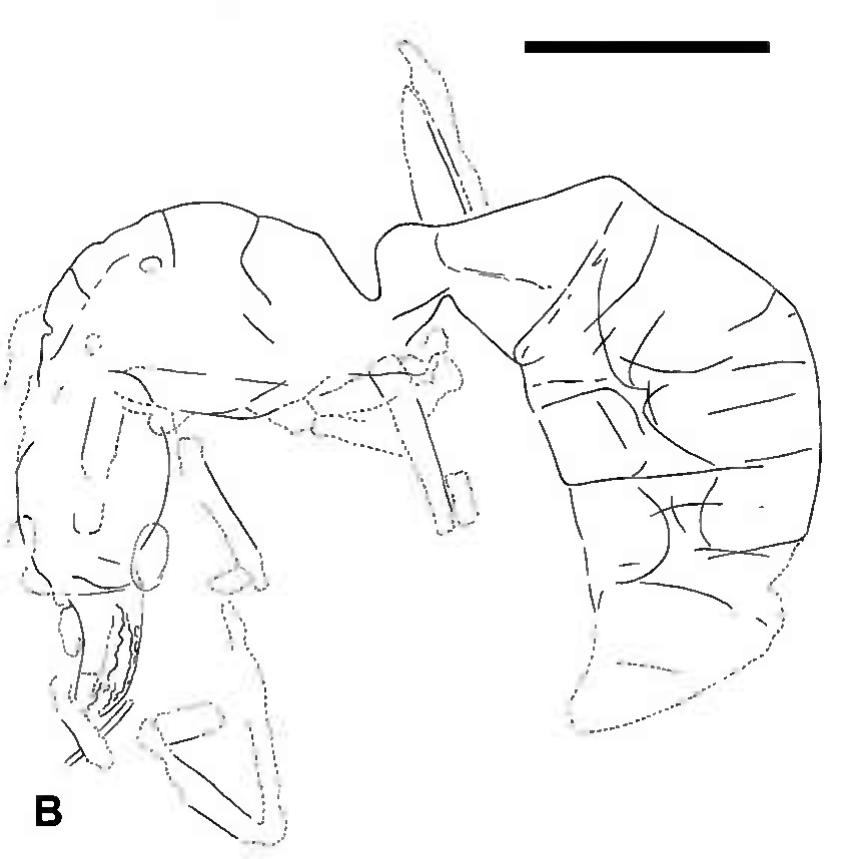
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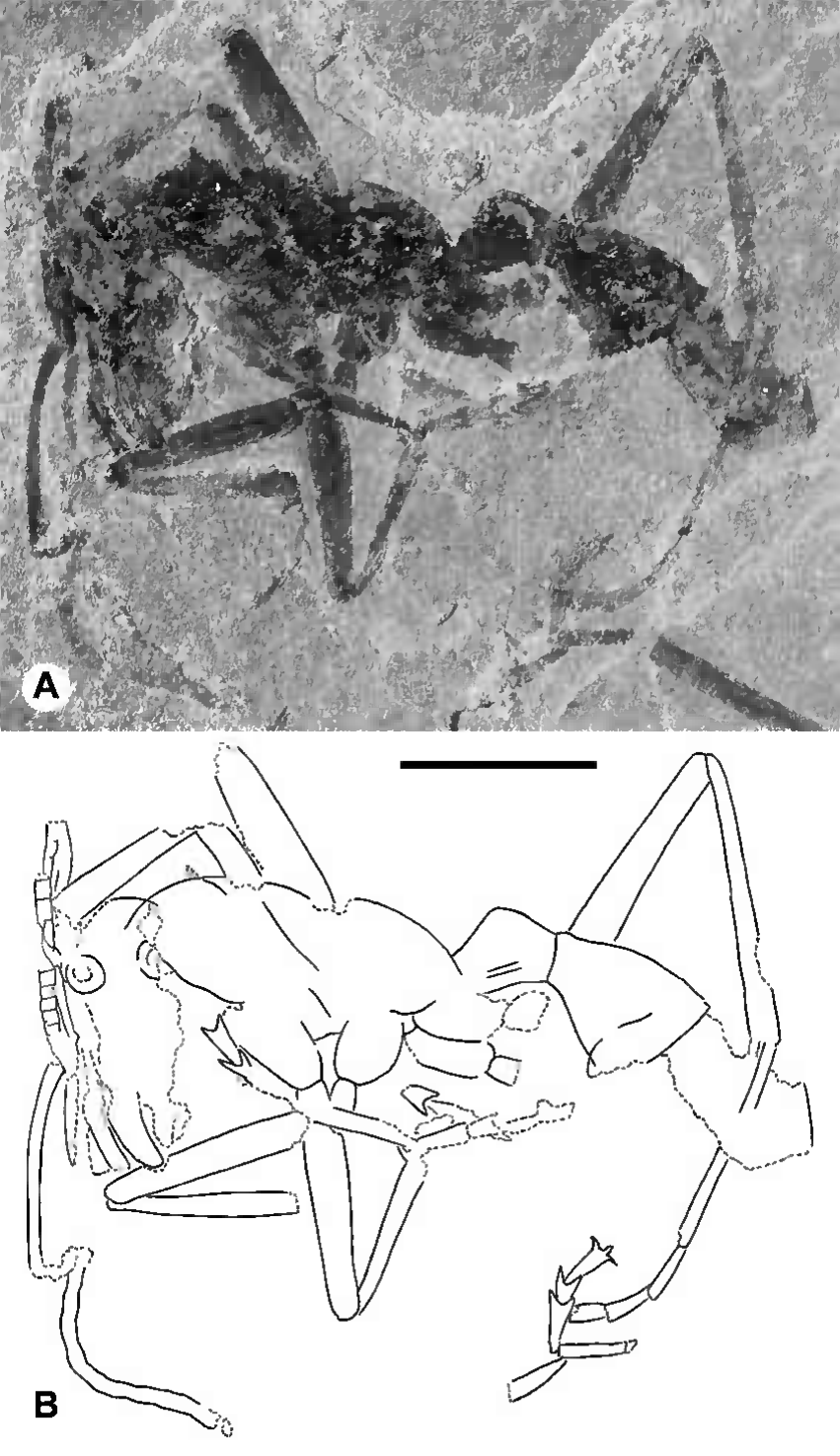
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B

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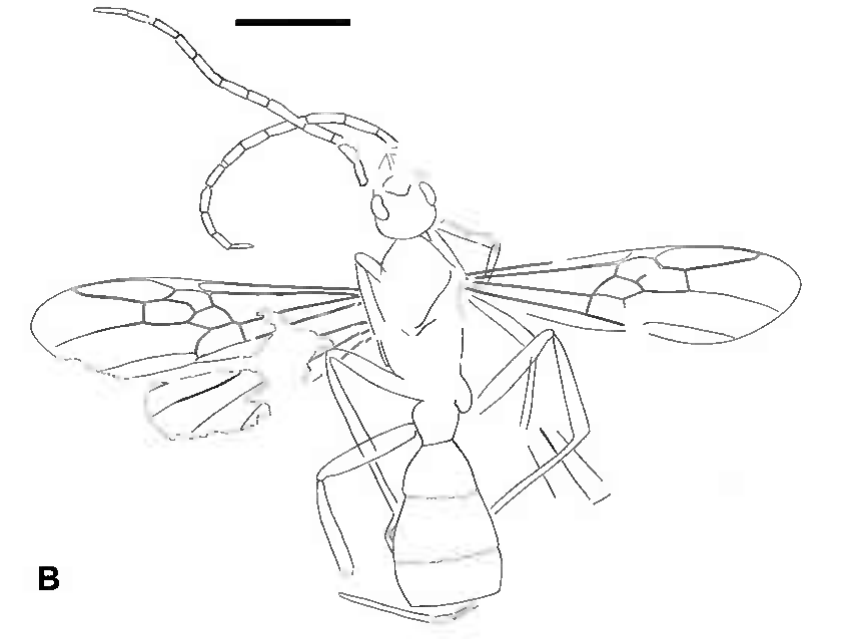
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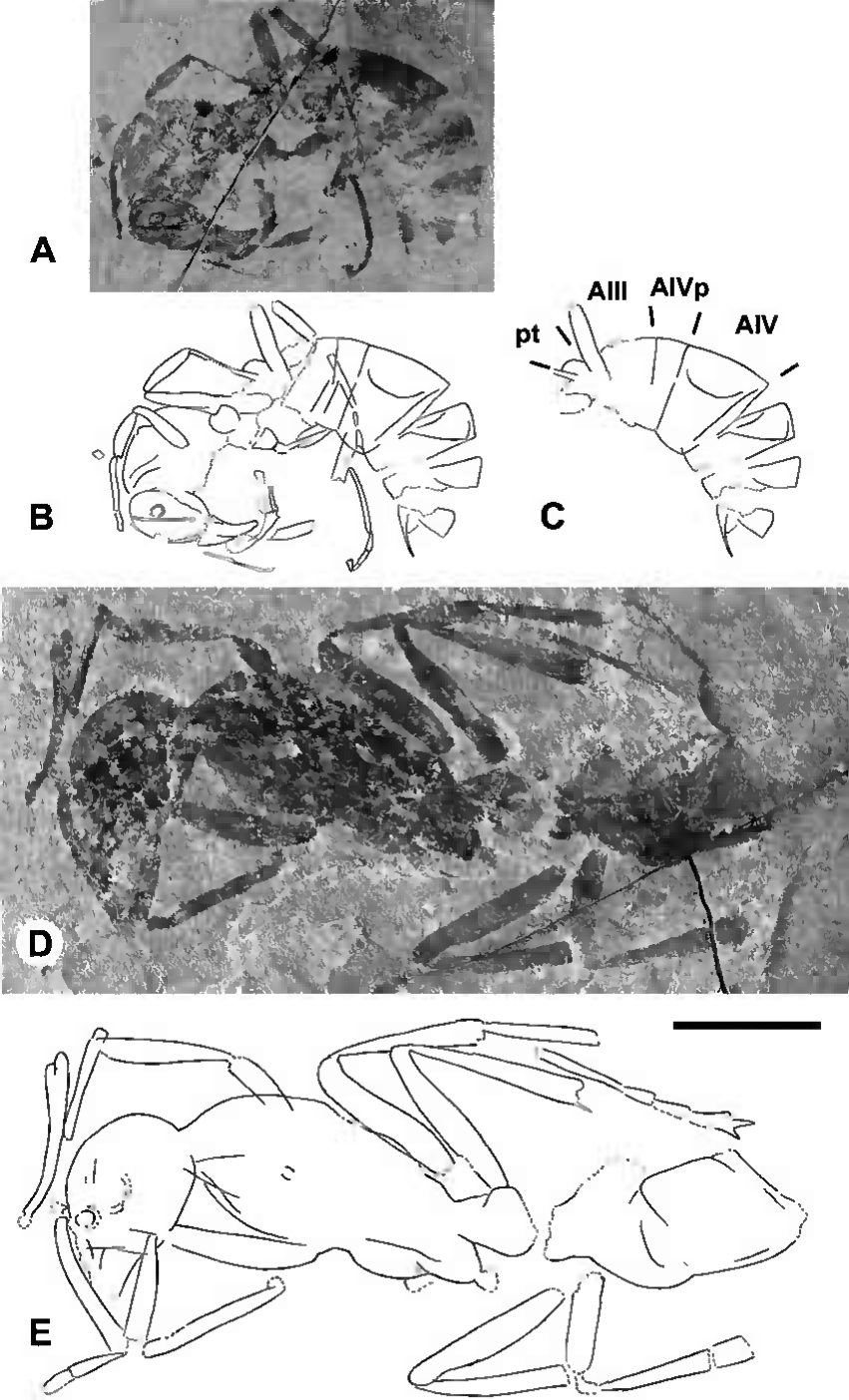
A
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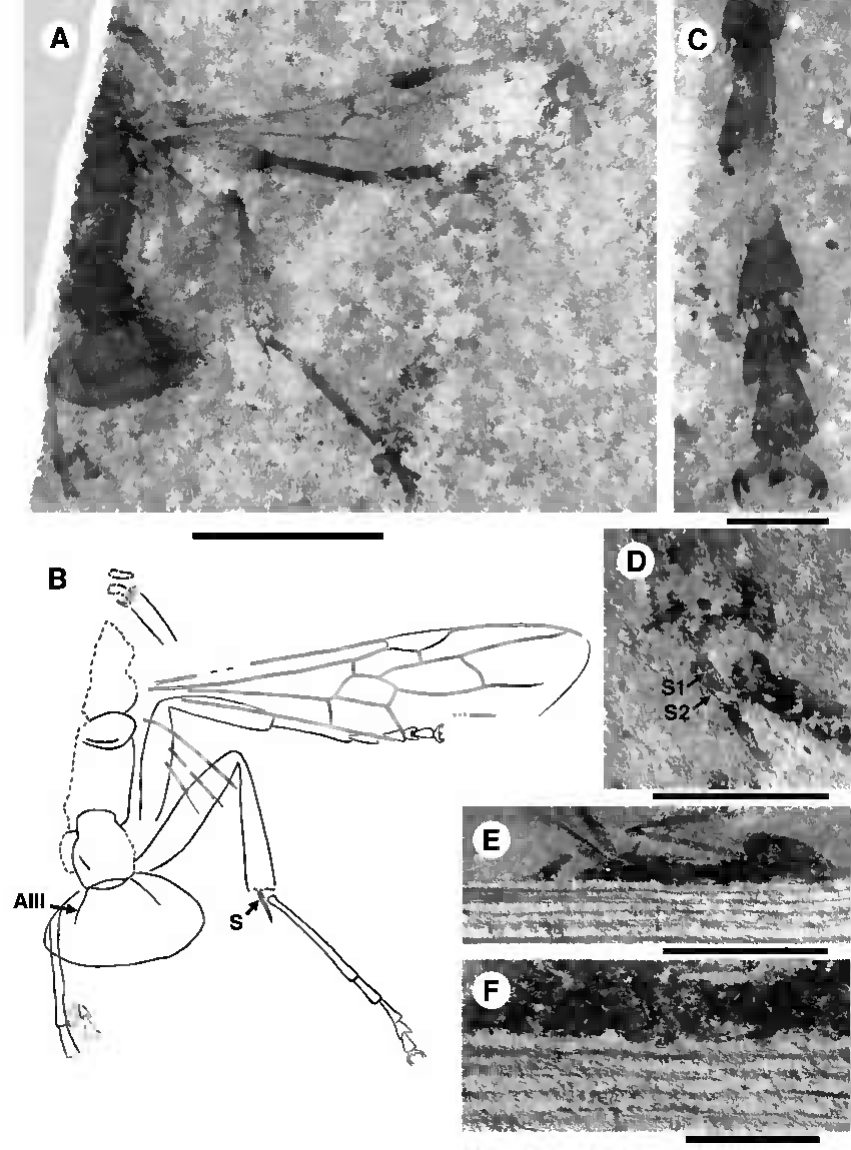
pt
AIII
AIVp
AIV
C
D
E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S2
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AIII
S
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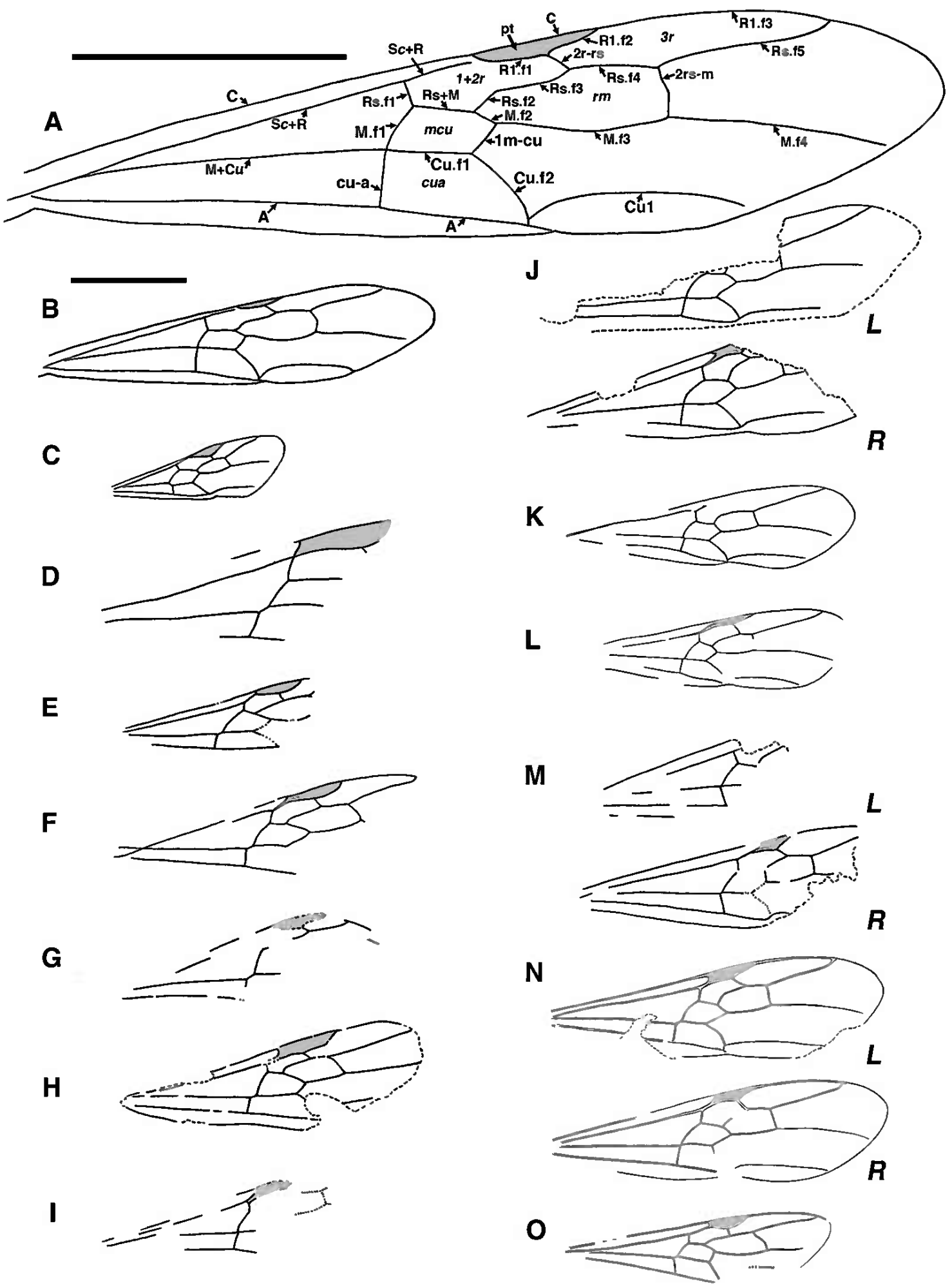
A
pt
C
R1.f3
Sc+R
R1.f2
3r
Rs.f5
2r-rs
R1.f1
1+2r
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2rs-m
C
Rs.f1
Rs+M
Rs.f3
rm
Rs.f2
Sc+R
M.f2
M.f1
mcu
1m-cu
M.f3
M.f4
M+Cu
Cu.f1
cu-a
cua
Cu.f2
Cu1
A
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R
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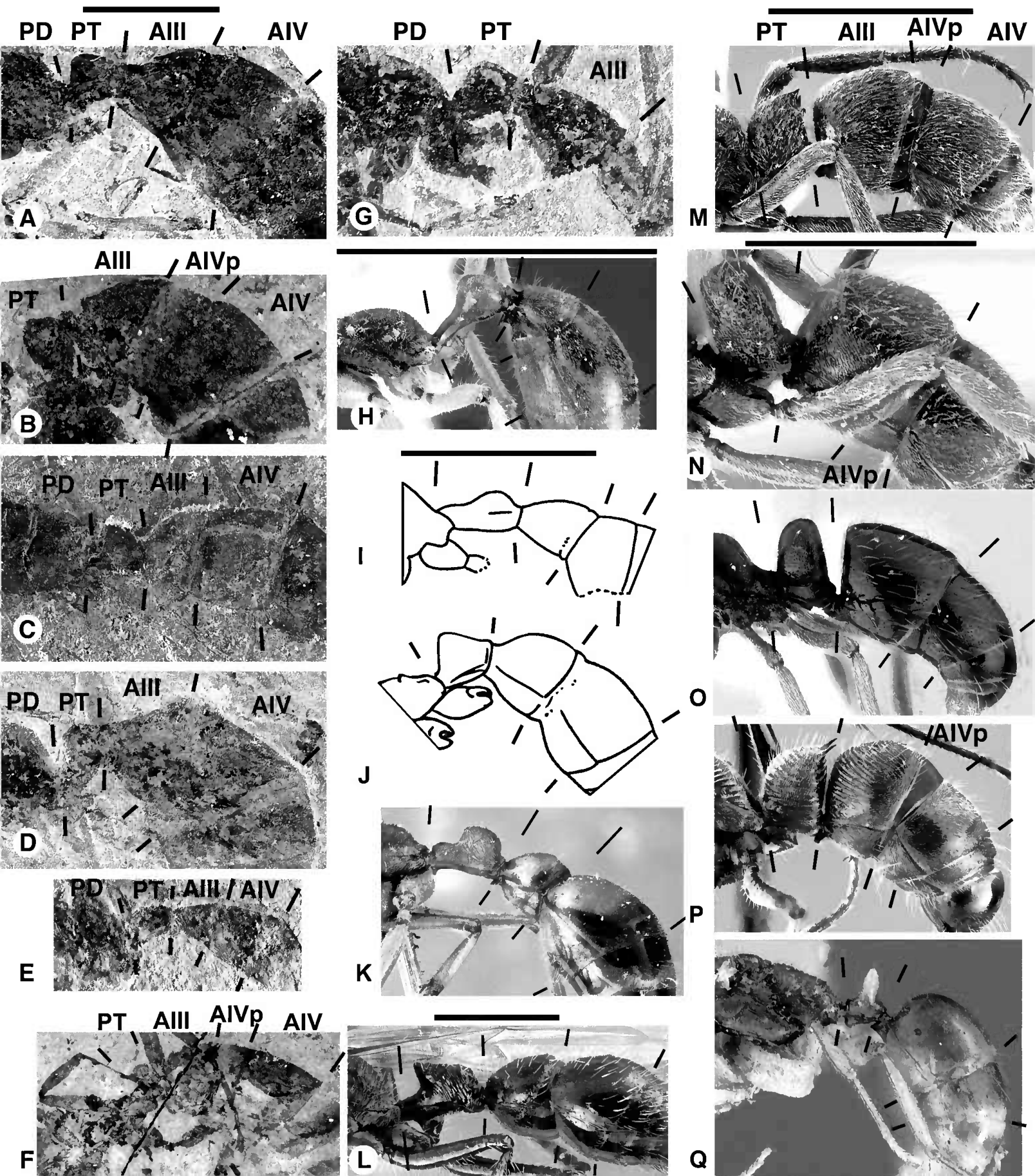
PD
PT
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C
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AIII
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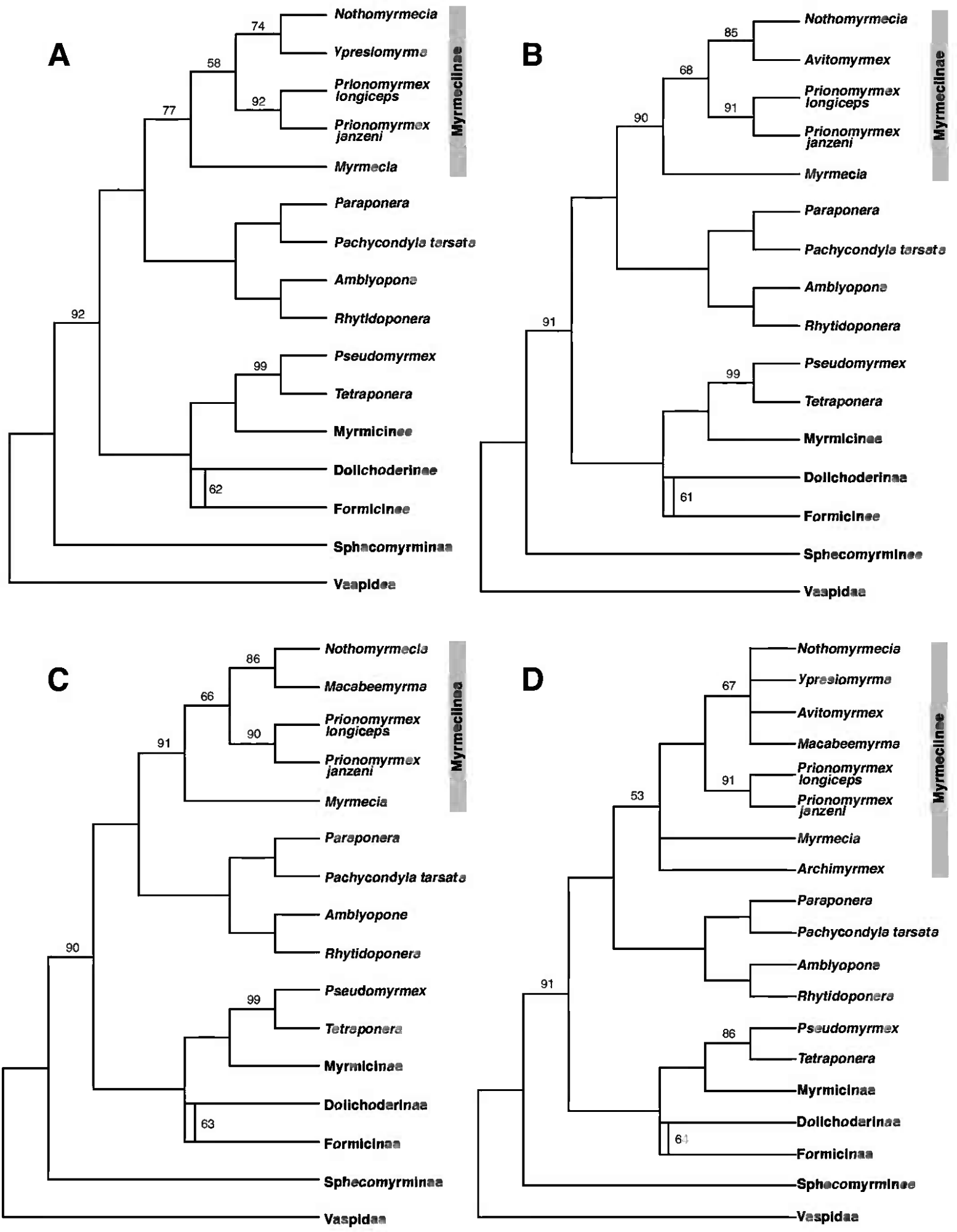
A
Nothomyrmecia
Ypresiomyrma
Prionomyrmex longiceps
Prionomyrmex janzeni
Myrmecia
Paraponera
Pachycondyla tarsata
Amblyopone
Rhytidoponera
Pseudomyrmex
Tetraponera
Myrmicinae
Dolichoderinae
Formicinae
Sphecomyrminae
Vespidae
Myrmecinae
74
58
92
77
92
99
62
B
Nothomyrmecia
Avitomyrmex
Prionomyrmex longiceps
Prionomyrmex janzeni
Myrmecia
Paraponera
Pachycondyla tarsata
Amblyopone
Rhytidoponera
Pseudomyrmex
Tetraponera
Myrmicinae
Dolichoderinae
Formicinae
Sphecomyrminae
Vespidae
Myrmecinae
85
68
91
90
91
99
61
C
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Macabeemyrma
Prionomyrmex longiceps
Prionomyrmex janzeni
Myrmecia
Paraponera
Pachycondyla tarsata
Amblyopone
Rhytidoponera
Pseudomyrmex
Tetraponera
Myrmicinae
Dolichoderinae
Formicinae
Sphecomyrminae
Vespidae
Myrmecinae
86
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90
91
90
99
63
D
Nothomyrmecia
Ypresiomyrma
Avitomyrmex
Macabeemyrma
Prionomyrmex longiceps
Prionomyrmex janzeni
Myrmecia
Archimyrmex
Paraponera
Pachycondyla tarsata
Amblyopone
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Pseudomyrmex
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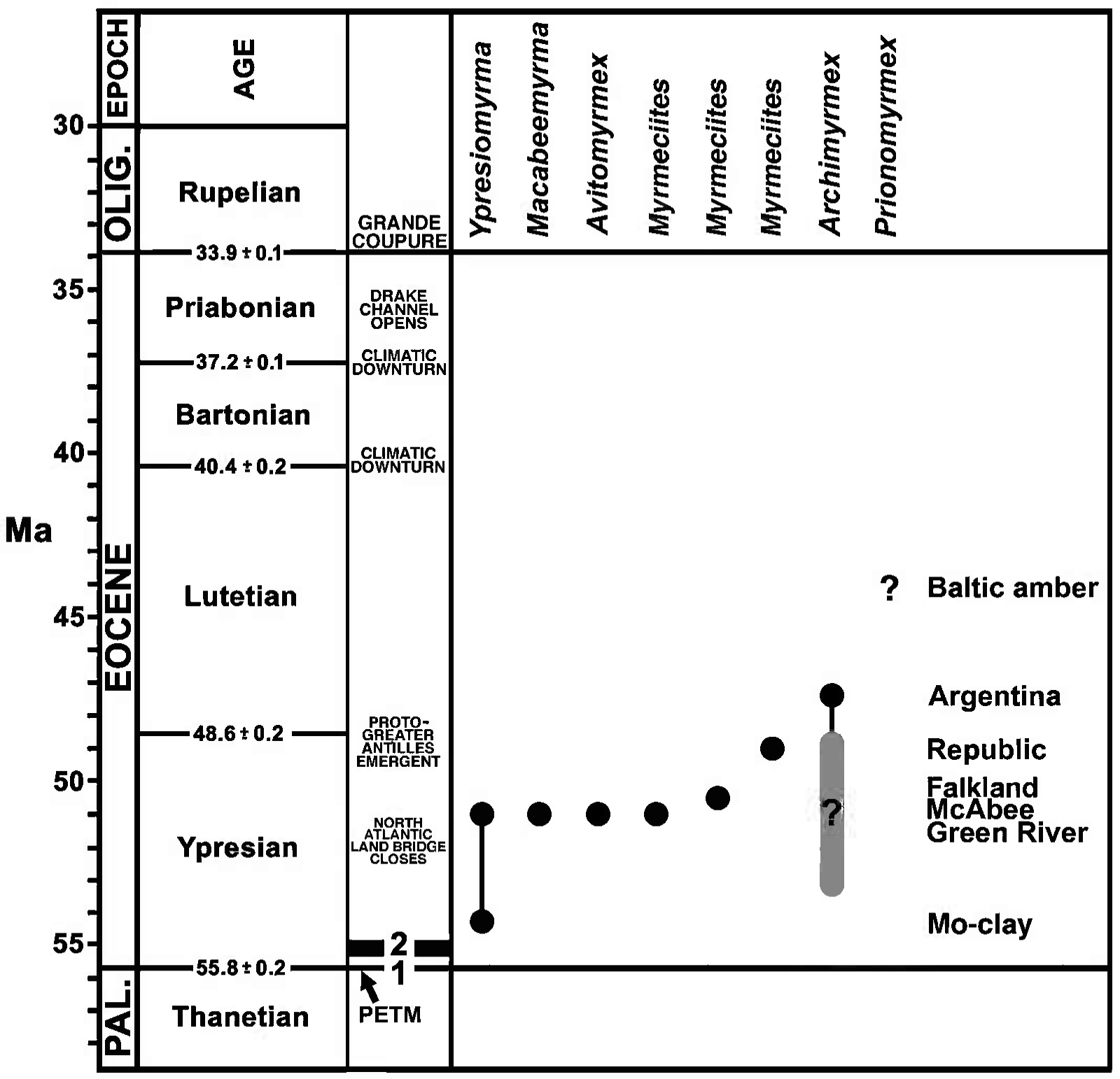
EPOCH
AGE
OLIG.
Rupelian
33.9 ± 0.1
GRANDE COUPURE
Priabonian
DRAKE CHANNEL OPENS
37.2 ± 0.1
CLIMATIC DOWNTURN
Bartonian
40.4 ± 0.2
CLIMATIC DOWNTURN
EOCENE
Lutetian
48.6 ± 0.2
PROTO-GREATER ANTILLES EMERGENT
Ypresian
NORTH ATLANTIC LAND BRIDGE CLOSES
2
55.8 ± 0.2
1
PAL.
Thanetian
PETM
Ma
30
35
40
45
50
55
Ypresiomyrma
Macabeemyrma
Avitomyrmex
Myrmecilites
Myrmecilites
Myrmecilites
Archimyrmex
Prionomyrmex
?
Baltic amber
Argentina
Republic
Falkland
McAbee
Green River
?
Mo-clay